

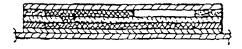
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

31 (mernational Patent Classification 6 WO 99/36755 (II) International Publication Number A1G01K 3/04 (43) International Publication Date: 22 July 1999 (22,07 99) 21) International Application Stamber: PCT/GB99/00044 (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FL GB, GD, (8 January 1999 (18 01.99) GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, RP. 22) International Piling Date: KR. KZ. LC. I.K. LR, LS, LT. LU. LV. MD, MG. NK. MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG. SI SK. SL, 11, TM, TR, TT, UA, UG, US, UZ, VN, YU, 30 Priority Datas 9800514.7 16 January 1998 (16 01.98) ZW. ARIPO patent (GH. CM. KE, LS, MW. SD. 57, UG. GB ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, "In Applicant for all designated States except (15): FOOD FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent GU ARDIAN LIMITED (GB/GB); Ashrields, Leigh Sinton, (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, Maliem Worcestershire WRTS 5DH (GB). SN, TD, TG) "2) Inventors; and .75) Inventors/Applicants (for US only): MOULE, Robert Published [GB GB]. Chygumo Lamorna. Penzance TR19 6XH (GB). With international search report MOULE, Simon [GB/GB], 42 Encymion Road, London N4 1EQ (GB). (*4) Agent. ATKINSON, Peter, Birch: Marks & Clerk, Sussex House, \$3-85 Mosley Street, Manchester M2 3LG (GB),

(54) Tide: BARRIER MATERIALS AND PRODUCTS PRODUCED THEREWITH

1571 Abstract

A marking element of for indicating whether a pre-defined temperature condition has been maintained. The element comprises a first material (7) capable of flowing above a predetermined temperature



separated from a second absorbent material (5, 10) by a heat disruptable barrier layer (4). The first and second materials are such that when the barrier layer is punctured and the predetermined temperature is exceeded the first material flows in the second material to produce a detectable change. The heat disruptable barrier layer (4) is comprised of a heat disruptable material (8) associated with an element (9) capable of being inductively heated by electromagnetic energy to effect disruption of said material thereby to activate the marking element.

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